

PTO/SB/21 (12-07)

Approved for use through 12/31/2007. OMB 0651-0031

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**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

17

Application Number

10/652,987

Filing Date

08-29-2003

First Named Inventor

Harter

Art Unit

2621

Examiner Name

Anyikire, C.

Attorney Docket Number

DP-309898

**ENCLOSURES (Check all that apply)**

Fee Transmittal Form



Fee Attached



Amendment/Reply



After Final



Affidavits/declaration(s)



Extension of Time Request



Express Abandonment Request



Information Disclosure Statement



Certified Copy of Priority Document(s)

Reply to Missing Parts/  
Incomplete ApplicationReply to Missing Parts  
under 37 CFR 1.52 or 1.53

Drawing(s)



Licensing-related Papers



Petition

Petition to Convert to a  
Provisional Application

Power of Attorney, Revocation



Change of Correspondence Address



Terminal Disclaimer



Request for Refund



CD, Number of CD(s) \_\_\_\_\_

☐ Landscape Table on CD

After Allowance Communication to TC

Appeal Communication to Board  
of Appeals and InterferencesAppeal Communication to TC  
(Appeal Notice, Brief, Reply Brief)

Proprietary Information



Status Letter

Other Enclosure(s) (please identify  
below):

RETURN POST CARD

Remarks

APPEAL BRIEF

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name

NAVARRE LAW OFFICE

Signature

Printed name

MARK A. NAVARRE

Date

DECEMBER 11, 2007

Reg. No.

29572

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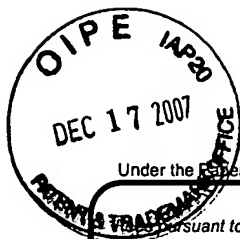
MARK A. NAVARRE

Date

DECEMBER 11, 2007

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (10-07)

Approved for use through 06/30/2010. OMB 0651-0032  
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Effective on 12/08/2004.

Pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

**FEE TRANSMITTAL**  
**For FY 2008**☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$) 510.00**Complete if Known**

Application Number	10/652,987
Filing Date	8-29-2003
First Named Inventor	HARTER
Examiner Name	ANYIKIRE, C.
Art Unit	2621
Attorney Docket No.	DP-309898

**METHOD OF PAYMENT (check all that apply)**☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_☐ Deposit Account Deposit Account Number: \_\_\_\_\_ Deposit Account Name: \_\_\_\_\_

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below☐ Charge fee(s) indicated below, except for the filing fee☐ Charge any additional fee(s) or underpayments of fee(s)  
under 37 CFR 1.16 and 1.17☐ Credit any overpayments**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	310	155	510	255	210	105	
Design	210	105	100	50	130	65	
Plant	210	105	310	155	160	80	
Reissue	310	155	510	255	620	310	
Provisional	210	105	0	0	0	0	

**2. EXCESS CLAIM FEES****Fee Description**

Each claim over 20 (including Reissues)

Fee (\$)	Small Entity Fee (\$)
50	25

Each independent claim over 3 (including Reissues)

210	105
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Multiple dependent claims

370	185
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Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
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\_\_\_\_\_ - 20 or HP = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
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\_\_\_\_\_ - 3 or HP = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$260 (\$130 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
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\_\_\_\_\_ - 100 = \_\_\_\_\_ / 50 = \_\_\_\_\_ (round up to a whole number) x \_\_\_\_\_ = \_\_\_\_\_

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

**Fees Paid (\$)**

Other (e.g., late filing surcharge): \_\_\_\_\_

**SUBMITTED BY**

Signature		Registration No. (Attorney/Agent) 29572	Telephone 937-653-3501
Name (Print/Type)	MARK A. NAVARRE		Date DECEMBER 11, 2007

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT

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Mark A. Navarre

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Harter et al.

Group Art Unit: 2621

Cam-Driven Multiple-View Imaging System

Examiner: Anyikire, C.

U. S. Serial No. 10/652,987

Filed: August 29, 2003

PAPER NO. 8 -- APPEAL BRIEF

Commissioner for Patents

Mail Stop Appeal Brief – Patents

Alexandria, VA 22313-1450

12/17/2007 SFELEKE1 00000015 10652987

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510.00 0P

SECTION I -- REAL PARTY IN INTEREST

The real party in interest herein is Delphi Technologies Incorporated, to whom the entire right and interest of the subject patent application have been assigned.

SECTION II -- RELATED APPEALS AND INTERFERENCES

Appellants, Assignee, and the undersigned are not aware of any related appeals or interferences that will directly affect or be directly affected by or have a bearing on the Board's decision in this Appeal.

SECTION III -- STATUS OF CLAIMS

Claims 1-5 are pending and under final rejection.

SECTION IV -- STATUS OF AMENDMENTS

An amendment after final rejection under 37 CFR 1.116 (Paper No. 5) was submitted on October 16, 2007. Per Advisory Action dated November 8, 2007, the amendment was entered but was not deemed to place the application in condition for allowance. The Notice of Appeal (Paper No. 7) was filed on November 27, 2007.

SECTION V -- SUMMARY OF CLAIMED SUBJECT MATTER

The invention is directed to an apparatus including a mirrored shaft (26) with linearly separated mirrors (20, 24) that is linearly displaced along an axis of the shaft (26) to present two or more different views to an imaging device (12) so that video data produced by imaging device (12) includes data pertaining to the different views. The mirrored shaft (26) is coupled to a rotary cam mechanism (28) by a connecting arm (58), and an electric motor (16) drives the rotary cam mechanism (28) to produce the linear displacement of the mirrored shaft (26). See for example, page 2, line 25 through column 3, line 2.



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SECTION VI -- GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

Whether Claims 1-5 are anticipated under 35 USC 102(b) by Bradley et al.  
5,771,071.

## SECTION VII -- ARGUMENT

The rejection under 35 USC 102(b) is in error because Claims 1-5 are not anticipated by Bradley et al. Claims 2-5 depend from Claim 1 and are patentable over Bradley et al. for at least the reasons presented below in respect to Claim 1. Separate mention is also made of dependent Claim 3.

Independent Claim 1. The rejection of Claim 1 is in error because Bradley et al. do not show either of the following: (1) a mirrored shaft that is linearly displaceable along an axis of the shaft for presenting different views to an imaging device; and (2) a drive means for producing linear displacement of a mirrored shaft along its axis to change the view presented to an imaging device.

Appellants admit that Bradley et al. disclose an apparatus including a mirrored shaft (88) for presenting at least two different views to an interlaced imaging device (44). Alternately, one might consider Bradley's mirrored shaft (114) that is rotatable to adjust the elevation of optical path (48). But in Bradley et al., the mirrored shaft (88 or 114) is rotated (i.e., rotatably displaced about its axis) to present different views to the imaging device (44). As seen in FIG. 4, the mirrored shaft (88) is coupled to a crank arm (94), and a link arm (92) links the crank arm (94) to the pivot pin (106) of a linear solenoid (90); see column 9, lines 23-52. The solenoid output shaft (pivot pin 106) moves linearly, and the link arm (92) and crank arm (94) "translate the linear mechanical action of the solenoid 90 into a rotational action for pivoting the mirror mounting plate 84 between a first and second position corresponding to a first and second condition of the solenoid 90"; see column 9, lines 40-45. In the case of mirrored shaft (114), an electric motor (118) rotates the shaft (114) through a gearbox (116); see FIG. 5 and column 10, lines 1-15.

Appellants respectfully submit that the teachings of Bradley et al. cannot anticipate the apparatus of Claim 1. In fact, Bradley et al. teach what might be regarded as the opposite of Claim 1. Instead of a mirrored shaft (26) that is linearly displaceable along its axis to present different views to an imaging device (12), Bradley et al. disclose a mirrored shaft (88) that is rotatable about its axis to present different views to the

imaging device (44). And instead of a drive means for producing linear displacement of the mirrored shaft (26) along its axis to change the view presented to the imaging device (12), Bradley et al. disclose a drive means that produces “a rotational action for pivoting” the mirrored shaft (88) -- i.e., rotating it alternately clockwise and counter-clockwise. Instead of anticipating Claim 1, Bradley et al. teach away from Claim 1.

In a continuation sheet of the Advisory Action, the examiner stated the following:

“The applicant’s argument that Bradley teaches a drive means for rotating the shaft is correct, but prior art also discloses a linear solenoid of the type that linearly actuates an element responsive to a control signal.

The linear solenoid is used as a drive means to linearly displace the mirror shaft.”

The undersigned telephoned the examiner to clarify whether by the term “prior art” he meant Bradley et al. or a reference other than Bradley et al., and the examiner responded that he was in fact referring to Bradley et al. However, the only reference Appellants can find to a linear solenoid in Bradley et al. is the above-discussed portion of column 9 describing how the link arm (92) and crank arm (94) translate the linear mechanical action of the solenoid (90) into a rotational action for pivoting the mirror mounting plate 84. Bradley et al. do not suggest an alternate view changing apparatus, only the one(s) shown in the drawings. It is the examiner who is suggesting a different kind of view changing apparatus, with no basis for doing so other than Appellants’ own specification. It is inescapable that the examiner is relying on hindsight reconstruction, and not on the reference for what it fairly teaches.

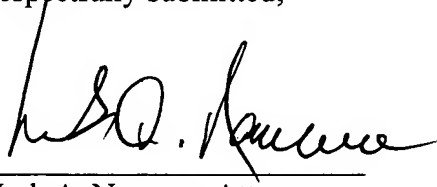
In conclusion, Appellants respectfully request that the rejection under 35 USC 102(b) be withdrawn. For the reasons stated above, Claim 1 is not anticipated by Bradley et al., and Claims 2-5 are patentable because they depend directly or indirectly from Claim 1.

Dependent Claim 3. In addition to the reasons given above in respect to the rejection of Claim 1, the rejection of Claim 3 is in error because Bradley et al. do not disclose a mirrored shaft including first and second linearly separated mirrors that are

alternately in position with respect to the imaging device during successive data acquisition periods of the imaging device. In Bradley et al., each mirrored shaft has only one mirror; the steering mirror (64) is coupled to shaft (114), and the flip mirror (82) is coupled to shaft (88).

Summary. Appellants respectfully submit that the rejection of Claims 1-5 under 35 USC 102(b) is in error as demonstrated above, and therefore request that the Board reverse such rejection.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Mark A. Navarre", written over a horizontal line.

Mark A. Navarre, Attorney  
Registration No. 29572  
Telephone: (937) 653-3501

SECTION VIII -- CLAIMS APPENDIX

1. (previously amended) An imaging system, comprising:  
an interlaced imaging device;  
a mirrored shaft that is linearly displaceable along an axis of the shaft for  
presenting different views to said imaging device;  
drive means including an electric motor for producing linear displacement of said  
mirrored shaft along said axis to change the view presented to said imaging device; and  
control means for controlling said electric motor in response to a data acquisition  
control signal of the imaging device such that interlaced video data produced by said  
imaging device includes data pertaining to two or more different views.
2. (original) The imaging system of Claim 1, wherein said data acquisition  
control signal is a vertical synchronization control signal that coordinates readout of said  
video data.
3. (previously amended) The imaging system of Claim 2, wherein said mirrored  
shaft includes first and second linearly separated mirrors that are alternately in position  
with respect to said imaging device during successive data acquisition periods of said  
imaging device.

4. (original) The imaging system of Claim 1, wherein said drive means includes a rotary cam mechanism driven by said electric motor and a connecting arm coupling said cam mechanism to said mirrored shaft.

5. (original) The imaging system of Claim 4, wherein said control means continuously drives said electric motor at a speed that is in synchronism with said data acquisition control signal.

SECTION IX – EVIDENCE APPENDIX

None.



SECTION X – RELATED PROCEEDINGS APPENDIX

None.